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0/10 22 0 0 853 1439



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LeaderBoard & Prev Day Solution

DAILY CHALLENGE

ProgramID- 5253



SkillRack

Unit Matrix Count

An $N \times N$ matrix containing 1s and 0s is given as the input to the program. The program must print the number of 2×2 unit matrices in the given matrix. A matrix is said to be unit matrix if all the integers are 1. Also, consider the overlapping matrices.

Boundary Condition(s):

 $1 \leq N \leq 100$

Input Format:

The first line contains the value of N.

The next N lines contain N elements each separated by space(s).

Output Format:

The first line contains an integer value.

Example Input/Output 1:

Input:

```
3
1 0 1
1 1 1
1 1 0
```

Output:

```
1
```

Explanation :

The number of 2*2 Unit matrix in the 3*3 matrix is 1.

1 0 1

1 1 1

1 1 0

Hence the output is 1.

Example Input/Output 2:

Input:

4

1 0 1 1

1 1 1 1

1 1 0 0

0 0 0 0

Output:

2

Explanation :

The number of 2*2 Unit matrix in the 4*4 matrix is 2.

Hence the output is 2.

Max Execution Time Limit: 5000 millisecs



Ambiance



Java (12.0)



Reset

```
1 import java.util.*;
2 public class Hello {
3
4     public static void main(String[] args) {
5         Scanner sc=new Scanner(System.in);
6         int n=sc.nextInt();
7         int[][] arr=new int[n][n];
8         for(int i=0;i<n;i++){
9             for(int j=0;j<n;j++){
10                 arr[i][j]=sc.nextInt();
11             }
12         }
13         int c=0;
14         for(int i=0;i<n-1;i++){
15             for(int j=0;j<n-1;j++){
16                 if(arr[i][j]==1 && arr[i+1][j]==1 && arr[i+1][
17                     c++;
18                 }
19             }
```

```
20     }  
21     System.out.print(c);  
22     }  
23 }
```

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Save

Run

☐ Run with a custom test case (Input/Output)